

Form PTO/SB/08	Docket Number (Optional) CIBT-P02-540	Application Number 09/613,177
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		
FEB 05 2003 EXAMINER'S OFFICE	Applicant Sampath et al.	Group Art Unit 1655
Filing Date July 10, 2000		

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
2	AA 5,578,708	11/26/96	Ozazaki et al.			
✓	AB 5,665,543	9/9/97	Foulkes et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
2	AC WO 93/05172	3/18/93	PCT				
	AD WO 95/11983	5/4/95	PCT				
	AE WO 95/14104	5/26/95	PCT				
	AF WO 95/33831	12/14/95	PCT				
	AG WO 96/08197	3/21/96	PCT				
	AH WO 96/34101	10/31/96	PCT				
	AI WO 96/34951	11/7/96	PCT				
	AJ WO 96/38590	12/5/96	PCT				
✓	AK WO 97/05285	2/13/97	PCT				
2	AL WO 97/05241	2/13/97	PCT				

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

2	AM	Asahina et al. Human Osteogenic Protein-1 Induces Both Chondroblastic and Osteoblastic Differentiation of Osteoprogenitor Cells Derived from Newborn Rat Calvaria. <i>J. Cell Biol.</i> 123, 921-933 (1993).
	AN	Asahina et al. Human Osteogenic Protein-1 Induces Chondroblastic, Osteoblastic, and/or Adipocytic Differentiation of Clonal Murine Target Cells. <i>Exp. Cell Res.</i> 222, 38-47 (1996).
	AO	Bogdanovic et al. Upstream Regulatory Elements Necessary for Expression of the Rat COL1A1 Promoter in Transgenic Mice. <i>J. Bone & Min. Res.</i> 9, 285-292 (1994).
	AP	Carey et al. Expression of Bone Morphogenetic Protein-6 Messenger RNA in Bovine Growth Plate Chondrocytes of Different Size. <i>J. Bone & Min. Res.</i> 10, 401-405 (1995).
✓	AQ	Chen et al. Bovine Articular Chondrocytes do not Undergo Hypertrophy when Cultured in the Presence of Serum and Osteogenic Protein-1. <i>Biochem. & Biophys. Res. Comm.</i> 197, 1253-1259 (1993).
2	AR	Chen et al. Osteogenic Protein-1 Promotes Growth and Maturation of Chick Sternal Chondrocytes in Serum-Free Cultures. <i>J. Cell Sci.</i> 108, 105-114 (1995).

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AS	Ducy et al. Two distinct osteoblast specific cis-acting elements control expression of a mouse osteocalcin gene. <i>Mol. Cell. Biol.</i> 15, 1858-1869 (1995).		
AT	Elima et al. The Mouse Collagen X Gene: Complete Nucleotide Sequence, Exon Structure and Expression Pattern. <i>Biochem J.</i> 289, 247-253 (1993).		
AU	Galera et al. C-Krox Binds to Several Sites in the Promoter of Both Mouse Type I Collagen Genes: Structure/Function Study and Development Expression Analysis. <i>J. Biol. Chem.</i> 271, 21331-21339 (1996).		
AV	Galera et al. C-Krox a Transcriptional Regulator of Type I Collagen Gene Expression is Preferentially Expressed in Skin. <i>PNAS</i> 91, 9372-9376 (1994).		
AW	Geoffroy et al. A PEBP2 alpha/AML-1-Related Factor Increases Osteocalcin Promoter Activity Through its Binding to an Osteoblast-Specific cis-Acting Element. <i>J. Biol. Chem.</i> 270, 30973-30979 (1995).		
AX	Ghosh-Choudhury et al. Immortalized Murine Osteoblasts Derived from BMP 2-T-Antigen Expressing Transgenic Mice. <i>Endocrinology</i> 137, 331-339 (1997).		
AY	Harada et al. Characterization of the Osteogenic Protein-1 Response Element in the Type X Collagen Promoter. <i>Mol. Biol. Cell</i> 6, Suppl. 393a: Abstract No. 2284 (1995).		
AZ	Harada et al. Characterization of the Osteogenic Protein-1 Response Region in the Type X Collagen Promoter. <i>Bone</i> 17, 590: Abstract No. 124 (1995).		
BA	Harada et al. Identification of an AP-1 Like Response Region for Osteogenic Protein-1 in Type X Collagen Promoter. Abstract Distributed at N.Y. Academy of Sciences, Molecular and Developmental Biology of Cartilage (September 27-30, 1995).		
BB	Harada et al. Induction of Vascular Endothelial Growth Factor by Osteogenic Protein 1 in vitro and in vivo. <i>Am. Soc. Bone & Min Res.</i> 10, Suppl. 1: Abstract No. T268 (1995).		
BC	Harada et al. Osteogenic Protein 1 Stimulates Type X Collagen Promoter Via a Fos Family Protein. <i>Am. Soc. Bone & Min. Res.</i> 10, Suppl. 1: Abstract No. T345 (1995).		
BD	Harada et al. Osteogenic Protein-1 Up-Regulation of the Mouse Collagen X Promoter Activity is Mediated by a MEF-2 Like Sequence and Requires an Adjacent AP-1 Sequence. <i>Mol. Endocrinol.</i> 11, 1832-1845 (Nov. 1997).		
BE	Harris et al. Recombinant Bone Morphogenetic Protein 2 Accelerates Bone Cell Differentiation and Stimulates BMP-2 mRNA Expression and BMP-2 Promoter Activity in Primary Fetal Rat Calvarial Osteoblast Cultures. <i>Mol. & Cell. Differentiation</i> 3, 137-155 (1995).		
BF	Katagiri et al. Bone Morphogenetic Protein-2 Converts the Differentiation Pathway of C2C12 Myoblasts into the Osteoblast Lineage. <i>J. Cell Biol.</i> 127, 1755-1766 (1994).		
BG	Knutsen et al. Osteogenic Protein-1 Stimulates Proliferation and Differentiation of Human Bone Cells in Vitro. <i>Biochem. & Biophys. Res. Comm.</i> 194, 1352-1358 (1993).		
BH	Knutsen et al. Regulation of Insulin-like Growth Factor System Components by Osteogenic Protein-1 in Human Bone Cells. <i>Endocrinology</i> 136, 857-865 (1995).		
BI	Lagna et al. Partnership between DPC4 and SMAD proteins in TGF- β signaling pathways. <i>Nature</i> 383, 832-836 (1996).		

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PRIORITY NON DISCLOSURE CITATION

PRIORITY APPLICATION

(Use several sheets if necessary)

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Group Art Unit

1655

Lee et al. Purified Transcription Factor AP-1 Interacts with TPA-Inducible Enhancer Elements. *Cell* 49, 741-752 (1987).

BJ

Liu et al. Simultaneous Detection of Multiple Bone-Related mRNAs and Protein Expression During Osteoblast Differentiation: Polymerase Chain Reaction and Immunocytochemical Studies at the Single Cell Level. *Dev. Biol.* 166, 220-234 (1994).

BK

LuValle et al. Multiple Negative Elements in a Gene that Codes for an Extracellular Matrix Protein Collagen X, Restrict Expression to Hypertrophic Chondrocytes. *J. Cell Biol.* 5, 1173-1179 (1993).

BL

Maliakal et al. Osteogenic Protein-1 (BMP-7) Inhibits Cell Proliferation and Stimulates the Expression of Markers Characteristic of Osteoblast Phenotype in Rat Osteosarcoma (17/2.8) Cells. *Growth Factors* 11, 227-234 (1994).

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Massague, J. TGF β Signaling: Receptors, Transducers, and Mad Proteins. *Cell* 85, 947-950 (1996).

BN

Merriman et al. The tissue specific nuclear matrix protein NMP-2 is a member of the AML/CBF/PEBP2/ runt domain transcription factor family: interactions with the osteocalcin gene promoter. *Biochem.* 34, 13125-13132 (1995).

BO

Michiels et al. Retroviruses and Oncogenes Associated with Osteosarcomas. *Osteosarcoma in Adolescents and Young Adults*. G. Bennett Humphrey, ed. Kluwer Academic Publishers, Boston, MA (1993).

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Ohta et al. Bone Morphogenetic Proteins (BMP-2 and BMP-3) Induce the Late Phase Expression of the Proto-Oncogene c-fos in Murine Osteoblastic MC3T3-E1 Cells. *FEBS Letters* 314, 356-360 (1992).

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Sassone-Corsi. Signaling Pathways and c-fos Transcriptional Response - Links to Inherited Diseases. *N.E. J. Med.* 322, 1576-1577 (1995).

BU

Satoh et al. Effect of Drugs on Gene Expression in Mammalian Cells: A Highly Efficient Procedure to Test Large Numbers of Samples. *Nucl. Acids Res.* 21, 4429-4430 (1993).

BV

Solursh, M. et al. Osteogenic Protein-1 is Required for Mammalian Eye Development. *Biochem. Biophys. Res. Comm.* 218, 438-443 (1996).

BW

Strong et al. The Effects of the Insulin-Like Growth Factors and Transforming Growth Factor β on the Jun Proto-Oncogene Family in MC3T3-E1 Cells. *Calcif. Tissue Int.* 55, 311-315 (1994).

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BZ

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		Vainio et al. Identification of BMP-4 as a Signal Mediating Secondary Induction Between Epithelial and Mesenchymal Tissues During Early Tooth Development. <i>Cell</i> 75, 45-58 (1993).	
12	CB	Wang et al. Bone and Haematopoietic Defects in Mice Lacking c-fos. <i>Nature</i> 360, 741-745 (1992).	
12	CC	Yoon et al. Characterization of the Rat Osteocalcin Gene: Stimulation of Promoter Activity by 1, 25-Dihydroxyvitamin D ₃ . <i>Biochemistry</i> 27, 8521-8526 (1988).	
12	CD	Yu et al. Human Myocyte-Specific Enhancer Factor 2 Comprises a Group of Tissue-Restricted MADS Box Transcription Factors. <i>Genes & Devel.</i> 6, 1783-1798 (1992).	
EXAMINER		DATE CONSIDERED 3/16/03	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			

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